

United States Parent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,543 10/31/2001		10/31/2001	Frank L. Sassaman JR.	352 USF	6420
23774	7590	06/07/2002			
DOUGLAS	G GLA	NTZ	EXAMINER		
ATTORNEY 5260 DEBO	RAH CO	URT	CINTINS, IVARS C		
DOYLESTO)WN, PA	18901		ART UNIT	PAPER NUMBER
				1724	1
				DATE MAILED: 06/07/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

1.7

Application No. Applicant(s)

10/001,543

Sassaman et al.

Office Action Summary

Examiner
Ivars Cintins

Art Unit 1724

	The MAILING DATE of this communication appears	on the cover she	et with	the correspondence address			
	or Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the							
mailing - If the p - If NO p - Failure - Any re	date of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply at to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	e statutory minimum (nd will expire SIX (6) e application to becon	of thirty (30 MONTHS from ABANDO	b) days will be considered timely. om the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status							
1) 🗶	Responsive to communication(s) filed on May 23, 2	2002		·			
2a)	This action is FINAL . 2b) \mathbf{X} This action	ion is non-final.					
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposi	tion of Claims						
4) X	Claim(s) <u>12-19</u>			is/are pending in the application.			
4	a) Of the above, claim(s)			is/are withdrawn from consideration.			
5)	Claim(s)			is/are allowed.			
6) X	Claim(s) <u>12-19</u>			is/are rejected.			
7) : .	Claim(s)						
8):	Claims						
	tion Papers						
	The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are	a) accepte	d or b)	objected to by the Examiner.			
	Applicant may not request that any objection to the d						
11)□	The proposed drawing correction filed on						
	If approved, corrected drawings are required in reply t						
12).	The oath or declaration is objected to by the Exami	ner.					
Priority	under 35 U.S.C. §§ 119 and 120						
•	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	☐ All b)☐ Some* c)☐ None of:						
	1. Certified copies of the priority documents hav	e been receive	d.				
	2. \square Certified copies of the priority documents hav	e been receive	d in App	lication No			
	3. Copies of the certified copies of the priority de application from the International Bure.	au (PCT Rule 1	7.2(a)).				
	ee the attached detailed Office action for a list of the						
,	Acknowledgement is made of a claim for domestic						
	The translation of the foreign language provisiona						
	Acknowledgement is made of a claim for domestic	priority under	ან U.S.(C. 33 TZU and/Of TZT.			
Attachm	ent(s) stice of References Cited (PTO-892)	4) Interview Su	mmarv (PTC	0-413) Paper No(s).			
/ \	otice of Draftsperson's Patent Drawing Review (PTO-948)			t Application (PTO-152)			
	3} [Information Disclosure Statement(s) {PTO-1449} Paper No(s). 6} Other:						

Serial Number: 10/001,543 Page 2

Art Unit: 1724

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-19 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The parenthetical expressions recited in claims 14 (line 4), 16 (line 4) and 19 (lines 4 and 5) appear to be redundant, and hence somewhat indefinite. Also, the term "chemical precipitation unit operation" (claim 12, line 7; and claims 17-19, lines 2-3) is vague, and indefinite as to the structural limitation intended. Similarly, claims 13-16 are vague and indefinite as to the structural limitations contained therein, since the recited "wastewater" does not appear to be a structural element of the recited apparatus.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Serial Number: 10/001,543 Page 3

Art Unit: 1724

Claims 12-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Busch (U.S. Patent No. 5,558,775). The reference discloses a system comprising a carbon bed (col. 3, line 44), and a chemical precipitation unit (col. 3, line 48) downstream from the carbon bed; and this is all that is required by the apparatus limitations of claims 12-16.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hagimori et al (U.S. Patent No. 5,348,724) in view of Bowers (U.S. Patent No. 5,045,213). Hagimori et al discloses decomposing hydrogen peroxide derived from a semiconductor cleaning operation (lines 2-6 of the abstract; and col. 1, lines 21-24) with a carbon bed (col. 3, lines 59-61; and col. 4, lines 19-23). Accordingly, this reference discloses the claimed invention with the exception of the recited precipitation unit. Bowers discloses precipitating heavy metals, such as copper, from an aqueous stream with iron sulfate (col. 10, line

Page 4 Serial Number: 10/001,543 Art Unit: 1724 14) or a dithiocarbamate compound (col. 14, lines 16-22 and 52-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the system of the primary reference with the precipitating unit of the secondary reference, in order to further purify the liquid undergoing treatment in this primary reference system. Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (703) 308-3840. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. The fax phone numbers for this art unit are: (703) 872-9311 for "Official" faxes after Final Rejection; (703) 872-9310 for all other "Official" faxes; and (703) 872-9492 for "Draft" and other "Unofficial" faxes. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661. **Primary Examiner** Art Unit 1724 I. Cintins June 5, 2002